

1 June 1988

MEMORANDUM FOR THE RECORD

FROM:

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SUBJECT: Trip Report

1. On May 26, 1988 I visited Contel/Equatorial Communications Co. in Mountain View, California and spoke with Director, Product Planning. I asked him a number of specific questions about the technical design and operation of the Equatorial spread spectrum system. In general, he (briefly) answered most of my questions, but did not give any more information about Equatorial's proprietary direct sequence codes other than to say that they are Gold codes. Gold codes are formed by the combination of "preferred" pairs of maximal length sequences (MLS) that give Gold codes good cross-and auto-correlation properties. However, for every pair of MLS of length $2^n - 1$, there are $2^n + 1$ Gold codes. For example, two MLS codes, each produced from an 11-stage shift register, can produce 2049 Gold codes.

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2. The attachment contains the information I obtained (or verified) from

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Attachment: As stated

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